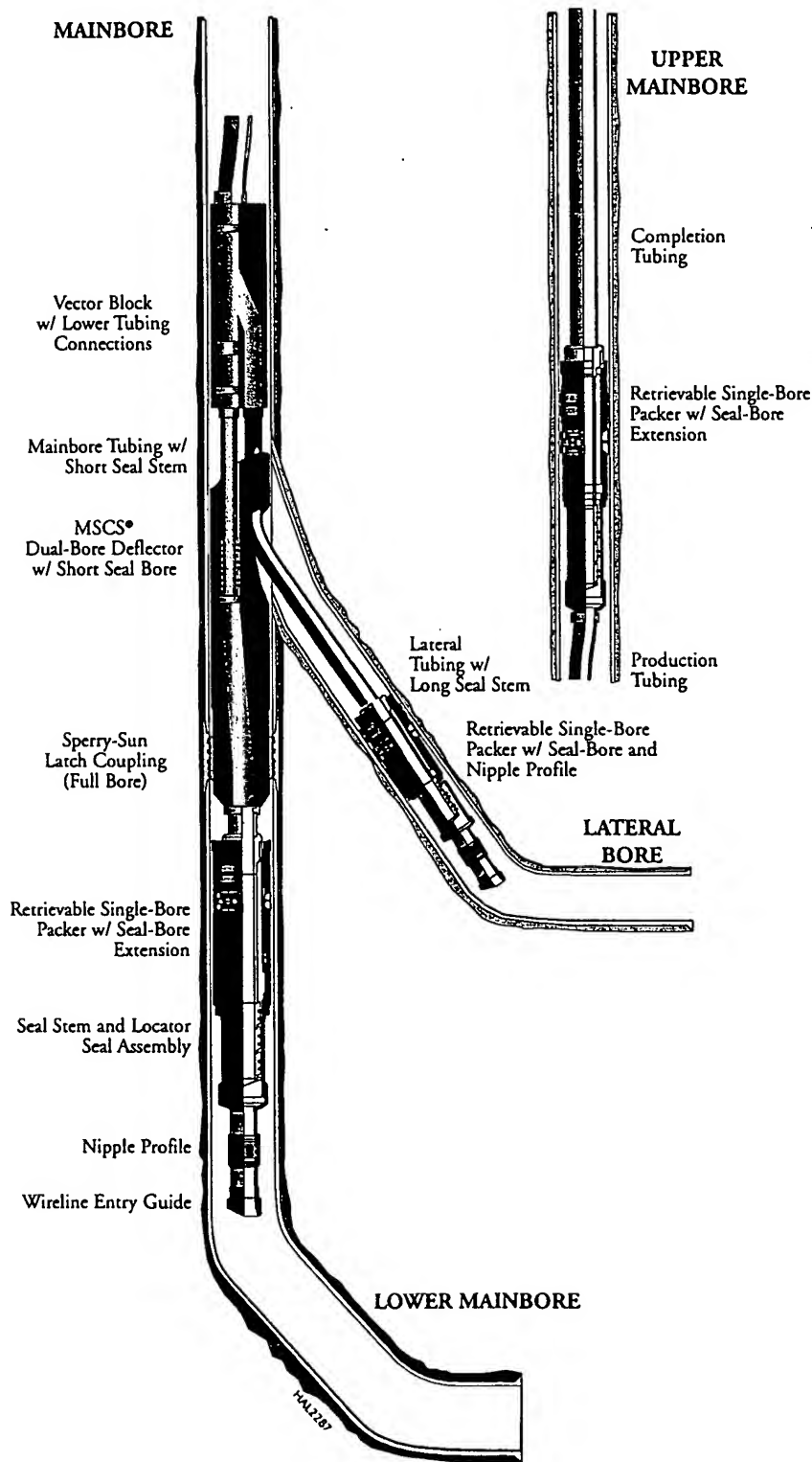


Multilateral Services Profile

Vector Block

BranchMaster™ Lateral Access Completion Systems



Application

The vector block is designed to allow selective entry from a single tubing string into a dual tubing string. This capability eliminates the requirement to pull the completion should access be required to the lateral for cleaning, stimulation, zonal isolation, or data acquisition. The mainbore tubing string can be accessed without using a tubing whipstock by simply running tools through the vector block. The lateral tubing string can be accessed by using a TEW™ tubing exit whipstock, which is installed into the vector block. The vector block will allow the lateral tubing string to be isolated using either a packer assembly in the secondary tubing string or by setting a TPI™ through-tubing pressure isolation sleeve inside the vector block. The mainbore tubing string can be isolated by using a conventional wireline plug below the vector block. The vector block will allow commingled production from multiple lateral legs and still retain the ability to re-enter and isolate either the mainbore string or the lateral strings. Using a vector block will enable the dual-bore packer above the MSCS® multi-string completion system dual bore to be replaced with a single-bore packer while still maintaining full hydraulic isolation.

Features

- Modular designed to work with the MSCS® system
- Selective lateral re-entry access with wireline, coiled tubing, or workstring utilizing the TEW™ system
- Selective isolation of lateral using TPI™ sleeve
- Re-entry whipstocks and sleeves can be run on wireline or coiled tubing

Benefits

- Commingled flow to surface
- Lateral re-entry without need to pull completion
- Systems can be stacked in series
- Can be used at all inclinations and azimuths

Vector Block
Commingled Completion
Level 5 Access Both Bores

Multilateral Services *Specifications*

Vector Block

BranchMaster™ Lateral Access Completion Systems



Typical Installation Sequence

- Run in hole with MSCS® dual-bore deflector, including the mainbore tailpipe and lower packer assembly, and set in the junction.
- Run in hole with the dual tubing strings. The lateral string and seal assembly deflect into the lateral bore and stings into the lateral packer while the mainbore string and seal assembly sting into the DBD seal bore. Connect vector block to dual-tubing string below and to single string completion to surface. Set upper packer assembly.
- Install upper completion and flow the well.

Vector Block Specifications	
System casing size	9-5/8 in. 244.5 mm
Casing weight	43-47 lb/ft
System size, tubing sizes and profile size	9-5/8 in. x 4-1/2 in. x 3-1/2 in. x 3-1/2 in. x 2.920 in.
Re-entry	Through-tubing re-entry to lateral using wireline or coiled tubing. Through-tubing re-entry to lower mainbore using wireline or coiled tubing
Isolation	Full isolation of lateral or mainbore using TPI™ sleeve (lateral isolation) or bridge plug (mainbore isolation)

*Casing size x upper tubing size x lower mainbore tubing size x lateral tubing size x profile size.

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DRILLING SERVICES

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